

ABSTRACT OF THE DISCLOSURE

A system for and a method of analyzing the surface condition of a PCB using RGB colors are disclosed. The
5 analyzing method includes the steps of feeding a target PCB, to be measured, to an image pick-up position where a pick-up unit is disposed, by a feeding unit, picking up an image of a metal surface of the fed target PCB, extracting pixel data from the picked-up image for the target PCB, performing a mapping
10 operation for RGB signals of the extracted pixel data in accordance with a mapping program, thereby determining relative RGB values, producing cumulative distribution data of the relative RGB values for the target PCB in accordance with an RGB-mapping process, and quantitatively determining the
15 oxidation degree of the target PCB metal surface exhibited with the lapse of time, based on the cumulative distribution data. Since relative values of RGB colors in an image picked up from the metal surface of a PCB can be analyzed, it is possible to rapidly and easily analyze the surface condition of the PCB
20 such as oxidation, contamination, or structural defects of the PCB in a quantitative manner without using an expensive surface analyzer.